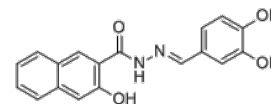


Product Name : Dynasore
Cat. No. : PC-20700
CAS No. : 304448-55-3
Molecular Formula : C₁₈H₁₄N₂O₄
Molecular Weight : 322.32
Target : Dynamain
Solubility : 10 mM in DMSO



CAS: 304448-55-3

Biological Activity

Dynasore is a specific, cell-permeable inhibitor of dynamin GTPase function, acts as a potent inhibitor of endocytic pathways known to depend on dynamin by rapidly blocking coated vesicle formation.

Dynasore interferes in vitro with the GTPase activity of dynamin1, dynamin2, and Drp1, the mitochondrial dynamin, but not of other small GTPases.

Dynasore inhibits the GTPase activity of full-length dynamin1 or dynamin2 ΔPRD stimulated by self-association in a dose-dependent manner with IC₅₀ of 15 μM.

Dynasore blocks clathrin-mediated endocytosis in nonneuronal cells, reversibly blocks endocytosis in hippocampal synapses.

Dynasore has no immediate effect on exocytosis.

References

Macia E, et al. Dev Cell. 2006 Jun;10(6):839-50.

Newton AJ, et al. Proc Natl Acad Sci U S A. 2006 Nov 21;103(47):17955-60.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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